

2500 Automatic Tank Gauge

Mechanical float gauge for continuous level measurement in storage tanks



Exceptional float & tape instrumentation

2500 ATG



The Model 2500 Automatic Tank Gauge (ATG) is a float and tape operated instrument designed to provide continuous liquid level measurement in various storage tanks. Endress+Hauser Systems & Gauging has maintained this simple and reliable product, which has been the market leader in float and tape instrumentation for over 20 years.

This versatile gauge has the largest proven installed base world wide due to the installation options and complete

range of accessories to suit user accuracy and installation requirements for virtually every application, including:

- Cone roof tanks
- Floating roof tanks, float well type
- Floating roof tanks without floatwell
- Fixed roof tank
- Bolted cone roof tank
- Cone roof tank with internal floating roof and pan
- Underground tanks
- Tank top or tank side



Tailored options to suit application requirements

Complete range of accessories

Due to the variations in applications and installation types, there are a number of options and accessories available, including:

- Float operation check knob to ensure the correct operation of the gauge
- Hand crank to hoist the float during turbulent mixing operations
- Counter assemblies with metric or imperial, fractional or decimal units displayed
- Standard, moderate, severe and extreme service kits available for applications involving extreme temperatures or pressures
- Liquid seals are available in various materials for chemical compatibility against corrosion which reduces leakage
- Tank covers provide access for maintenance and inspection
- Teflon tape wipe removes excess residue from the tape, minimising vapour loss and protecting the gaugehead from the product
- Dual calibrator assembly allows transmitters with absolute encoders to be calibrated without removing the transmitter from the gaugehead
- Extended range kits provide a measuring range up to 29 m (96 ft) – not available for cartridge equipped gauges
- Outage conversion kit allows the 2500 to read outage (Ullage) measurements
- Condensate reservoir designed to collect condensate that would otherwise collect in the gaugehead and reduce performance of the gauge
- Shock absorber, which reduces wear and required maintenance in tanks with turbulent conditions



The 2500 ATG is provided with all the basic accessories for a standard installation

Simplicity through design

As standard, a large stainless steel hollow shell float that is attached to the stainless steel perforated tape is used to detect the liquid level. The float follows the liquid level as it rises and falls due to the constant pullback tension provided by a powerful negator spring motor or cartridge motor. The precisely perforated tape engages pins on a sprocket wheel, which in turn, drives the counter assembly and any shaft position devices attached to the gaugehead, such as a transmitter. This simple design and operation allows the gauge to operate with negligible maintenance throughout its working life.

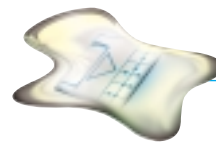


Specific kits are available for high pressure or aggressive product applications

Upgrade for operational efficiency

If your future needs will require the gauges to include transmission of acquired measurements to the control room, Endress+Hauser provides a range of analog and digital transmitters to facilitate this automation. A complete range of limit switches are available to change the contact status for on/off/start/stop device monitoring and control for liquid level alarm status indication – increasing automation and improving operational efficiency across your site.

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Product gravity range

0.7 to 1.9 (specific gravity)

Service rating

Atmospheric to 0.17 bar (2.5 psig)

Gauging range

0 to 18 m (60 ft)

Extended range 0 to 29 m (96 ft)

Fixed roof tanks require specific kits for Imperial or Metric units

Shipping weight

Dependent on model:

32 kg (70 lb) to 50 kg (110 lb)

Materials

Gaugeheads: aluminum or cast iron

Accessories: steel, stainless steel, cast iron, monel & carp. 20 – depending on item

Supplementary documentation

❑ Model 2500

Technical Information Ti016G/03/en

❑ Model 4000 ATT

Technical information Ti009G/03/en

❑ Model 4000 ATT

System Information Si009G/03/en

❑ FuelsManager

System Information Si006G/03/en

At a glance

4 mm (0.2") level gauging accuracy per SIRA Report E1588583

Low cost continuous measurement – units of measurement to suit your requirements (metric or imperial in decimals or fractions)

Wide variety of material available for extreme products or environmental conditions

Cone roof, floating roof and bolted tank kits available for stilling wells or water interface applications

Mounting for optional transmitters or limit switches for future site upgrades

Gaugehead/counter suitable for oil filling

Please call one of our global representatives or visit our website for further information.

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